

INTERNATIONAL SEARCH REPORT

IB2004/051275

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D53/00 B01D53/92 C02F1/32 B01J19/12 F01N3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D C02F B01J F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 194 821 B1 (NAKAMURA MASARU) 27 February 2001 (2001-02-27)	1
A	column 1, lines 44-53; claims 1-9 column 6, line 44 - column 7, line 5 column 10, lines 46-55 column 14, lines 12-31	2-10
A	DE 43 27 081 A (UNIV SCHILLER JENA) 16 February 1995 (1995-02-16) column 1, lines 6-11 column 2, lines 26-33 column 2, lines 57-61	1-10
A	DE 43 07 204 A (UNIV SCHILLER JENA) 15 September 1994 (1994-09-15) column 2, line 63 - column 3, line 3; claims 1-9 column 3, lines 31-37	1-10
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

11 October 2004

Date of mailing of the international search report

19/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kanoldt, W

INTERNATIONAL SEARCH REPORT

IB2004/051275

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 195 07 189 A (STENGELIN GMBH & CO KG) 12 September 1996 (1996-09-12) column 11, lines 12-20; claims 1-29 -----	1-10
A	EP 1 195 185 A (YAMAHA CORP) 10 April 2002 (2002-04-10) paragraphs '0151! - '0153!; claims 1-11 -----	1-10
A	DE 197 12 305 A (DUESSELDORFER CONSULT GMBH) 1 October 1998 (1998-10-01) claims 1-23 -----	1-10
A	US 6 047 543 A (CHRISTELLER DAVID ET AL) 11 April 2000 (2000-04-11) cited in the application the whole document -----	1-10
A	WO 97/22794 A (LITEX INC ; LOCKHEED CORP (US)) 26 June 1997 (1997-06-26) cited in the application the whole document -----	1-10

INTERNATIONAL SEARCH REPORT

IB2004/051275

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6194821	B1	27-02-2001	JP 10216716 A	18-08-1998
			JP 11191396 A	13-07-1999
			JP 3282798 B2	20-05-2002
			JP 11329365 A	30-11-1999
			JP 11319816 A	24-11-1999
			CA 2244645 A1	26-06-1999
			DE 19836619 A1	12-08-1999
DE 4327081	A	16-02-1995	DE 4327081 A1	16-02-1995
DE 4307204	A	15-09-1994	DE 4307204 A1	15-09-1994
DE 19507189	A	12-09-1996	DE 19507189 A1	12-09-1996
EP 1195185	A	10-04-2002	JP 3480440 B2	22-12-2003
			JP 2002113302 A	16-04-2002
			JP 2002113461 A	16-04-2002
			CN 1349931 A	22-05-2002
			EP 1195185 A1	10-04-2002
			US 2002060186 A1	23-05-2002
DE 19712305	A	01-10-1998	DE 19712305 A1	01-10-1998
			DE 29707912 U1	21-08-1997
US 6047543	A	11-04-2000	US 6029442 A	29-02-2000
			US 5863413 A	26-01-1999
			AU 5542999 A	14-02-2000
			CA 2338261 A1	03-02-2000
			EP 1101018 A2	23-05-2001
			JP 2002530181 T	17-09-2002
			WO 0004989 A2	03-02-2000
			US 6357223 B1	19-03-2002
			AU 9603098 A	27-04-1999
			BR 9813853 A	19-09-2000
			CA 2305238 A1	15-04-1999
			CN 1281528 T	24-01-2001
			DE 1021643 T1	19-04-2001
			EP 1021643 A1	26-07-2000
			JP 2001519497 T	23-10-2001
			WO 9918333 A1	15-04-1999
			US 6330794 B1	18-12-2001
			US 6321531 B1	27-11-2001
			ZA 9809145 A	20-10-1999
			US 6048500 A	11-04-2000
			US 6264899 B1	24-07-2001
			US 2001028869 A1	11-10-2001
WO 9722794	A	26-06-1997	US 5692481 A	02-12-1997
			US 5806305 A	15-09-1998
			AU 726650 B2	16-11-2000
			AU 1347997 A	14-07-1997
			BR 9612085 A	28-12-1999
			CA 2241110 A1	26-06-1997
			CN 1289005 A	28-03-2001
			CN 1209190 A	24-02-1999
			EP 0868605 A2	07-10-1998
			JP 2001508514 T	26-06-2001
			RU 2168053 C2	27-05-2001

INTERNATIONAL SEARCH REPORT

IB2004/051275

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9722794	A	WO 9722794 A2	26-06-1997
		US 6012283 A	11-01-2000
		US 6253544 B1	03-07-2001
		US 6048500 A	11-04-2000
		US 6264899 B1	24-07-2001
		US 5863413 A	26-01-1999
		US 2001028869 A1	11-10-2001
